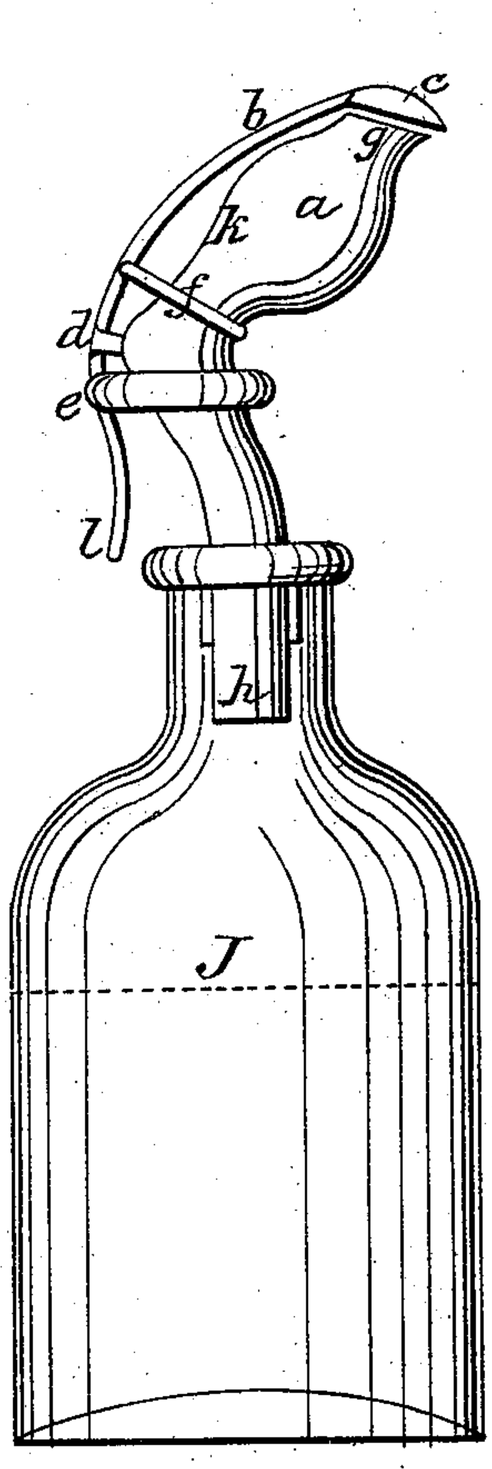
J. H. PEIN.

Measuring Nozzle for Liquid Jars.

No. 43,703. Patented Aug. 2, 1864.



Witnesses.

F. Baeuerlein

George Schuenk.

Inventor.

John H. Pein

UNITED STATES PATENT OFFICE.

JOHN H. PEIN, OF NEW YORK, N. Y.

IMPROVEMENT IN MEASURING-NOZZLES FOR LIQUID-JARS.

Specification forming part of Letters Patent No. **43,703**, dated August 2, 1864.

To all whom it may concern:

Be it known that I, JOHN H. PEIN, of New York, in the State of New York, have invented a new and improved self-regulating measuring-tube for liquids, especially nitrate-of-silver solution and all caustic solutions; and I do hereby declare that the following is a full and exact description thereof.

The nature of my invention consists in measuring a certain quantity of liquid—as, for instance, nitrate-of-silver solution—when silvering the paper used in the photographic art.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

a is a tube, of glass or other substance. *b* is a lever. *c* is a stopper. *d* is the vent to admit air. *e* is a crank. *f* is an india-rubber spring, which holds the lever and stopper close to the opening *g*; *g*, the mouth of the tube where the fluid runs out; *h*, opening where fluid runs in from the bottle; *i*, bottle; *k*, the level; *l*, handle of lever.

The tube, with the opening *h*, has to be fitted in a bottle, *i*, which contains the solution. By turning the bottle over the liquid runs into the tube. By turning the bottle horizontally the liquid will all run back into the bottle, except what is contained in the front tube up to the level *k*. The stopper on the lever prevents the liquid from running out. By pressing the handle the lever rises up, opens the mouth and the vent, and allows the liquid to flow out.

What I claim as my invention, and desire to secure by Letters Patent, is—

The measuring-tube substantially as herein described.

JOHN H. PEIN.

Witnesses:
JNO. H. JOHNSON,
HENRY A. RICE.